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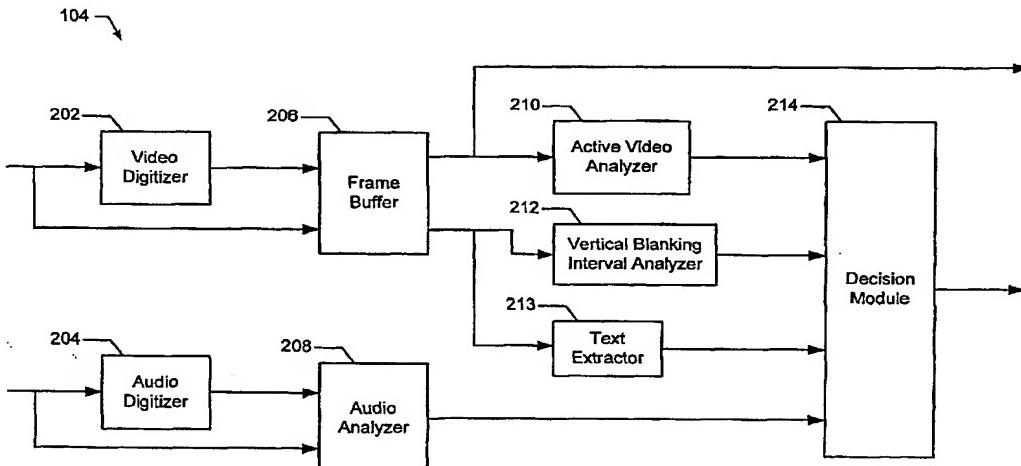
- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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26 May 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHODS AND APPARATUS TO DISTINGUISH A SIGNAL ORIGINATING FROM A LOCAL DEVICE FROM A BROADCAST SIGNAL



WO 2005/065159 A3

(57) Abstract: Methods and apparatus to distinguish a signal originating from a local device (102) from a broadcast signal are disclosed. A disclosed system classifies a video component of an audio-video signal by analyzing a histogram of pixel data (408), analyzing a quality factor (409), and/or attempting to detect embedded data (410) in the video component. The disclosed system also classifies an audio component of the audio-video signal by attempting to detect embedded audio data and/or analyzing waveform energy associated with the audio component. A source of the audio-video signal is determined based on the video classification and/or the audio classification.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/41670

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04N 17/00
US CL : 348/180

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 348/180, 738, 722, 553, 558, 554, 555, 556

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,067,126 A (Alexander) 23 May 2000, col. 2, line 63, to col. 12, line 14.	1-46
A	US 6,766,523 a (Herley) 20 July 2004, the whole document.	1-46
A	US 2002/0080286 A (Dagtas et al.), 27 June 2002, the whole document.	1-46

Further documents are listed in the continuation of Box C.

See patent family annex.

Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

30 September 2005 (30.09.2005)

Date of mailing of the international search report

21 MAR 2006

Name and mailing address of the ISA/US

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From the
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PCT

NOTIFICATION OF TRANSMITTAL OF
INTERNATIONAL PRELIMINARY
REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Rule 71.1)

Date of mailing
(day/month/year) 15 AUG 2006

Applicant's or agent's file reference

IMPORTANT NOTIFICATION

30004/231-WO

International application No.

International filing date (day/month/year)

Priority date (day/month/year)

PCT/US04/41670

10 December 2004 (10.12.2004)

30 December 2003 (30.12.2003)

Applicant

NIELSEN MEDIA RESEARCH, INC.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

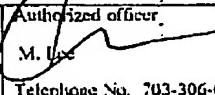
The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the *PCT Applicant's Guide*.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed invention is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

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Form PCT/IPEA-416 (January 2004)

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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 20004/131-WO	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/US04/41670	International filing date (day/month/year) 10 December 2004 (10.12.2004)	Priority date (day/month/year) 30 December 2003 (30.12.2003)
International Patent Classification (IPC) or national classification and IPC IPC: H04N 17/00 (2006.01) USPC: 348/180		
Applicant NIELSEN MEDIA RESEARCH, INC.		
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 3 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of _____ sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p> <p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>		
Date of submission of the demand 27 July 2005 (27.07.2005)	Date of completion of this report 31 July 2006 (31.07.2006)	
Name and mailing address of the IPEA/ US Mail Stop PCT, Attn: IPEA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. 703-306-3201		
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Form PCT/IPEA/409 (cover sheet) (April 2005)

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/US04/41670

Box No. I Basis of the report

1. With regard to the language, this report is based on:
 the international application in the language in which it was filed.
 a translation of the international application into _____, which is the language of a translation furnished for the purposes of:
 international search (under Rules 12.3 and 23.1(b))
 publication of the international application (under Rule 12.4(a))
 international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
2. With regard to the elements of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):
 the international application as originally filed/furnished
 the description:
pages 1-25 as originally filed/furnished
pages* NONE received by this Authority on _____
pages* NONE received by this Authority on _____
 the claims:
pages 26-36 as originally filed/furnished
pages* NONE as amended (together with any statement) under Article 19
pages* NONE received by this Authority on _____
pages* NONE received by this Authority on _____
 the drawings:
pages 17-17 as originally filed/furnished
pages* NONE received by this Authority on _____
pages* NONE received by this Authority on _____
 a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:
 the description, pages None
 the claims, Nos. None
 the drawings, sheets/figs None
 the sequence listing (*specify*): None
 any table(s) related to the sequence listing (*specify*): None
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
 the description, pages _____
 the claims, Nos. _____
 the drawings, sheets/figs _____
 the sequence listing (*specify*): _____
 any table(s) related to the sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."
Form PCT/IPEA/409 (Box No. I) (April 2005)

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/US04/41670

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims <u>1-46</u>	YES
	Claims <u>None</u>	NO
Inventive Step (IS)	Claims <u>1-46</u>	YES
	Claims <u>None</u>	NO
Industrial Applicability (IA)	Claims <u>1-46</u>	YES
	Claims <u>NONE</u>	NO

2. Citations and Explanations (Rule 70.7)

Claims 1-46 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the steps of classifying, and the step of determining as set forth in claims 1 and 29, the active video analyzer, the vertical blanking interval analyzer, the text extractor, and the audio analyzer as set forth in claim 19, the capturing step, the identifying step, and the comparing step as set forth in claim 31, the analyzing steps, and the determining step as set forth in claims 36 and 42, and the video/audio classifier, the video codec, and the optical character recognition engine as set forth in claim 40.

Claims 1-46 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

— NEW CITATIONS —

IS

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